Access DB# 154358

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Pamela Schwartz Examiner #: 61449 Date: 5/25/05
Art Unit: 1774 Phone Number ~~30~~ 21528 Serial Number: 10/622421
Mail Box and Bldg/Room Location: 10C75 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

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Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Image Recording Element with fluorosurfactant...
Inventors (please provide full names): Meskel, Paul B; Barbel, Gary N.; & Pitt, Alan R.
Earliest Priority Filing Date: 7/18/03

**For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

Please search fluorosurfact of claim 13-15 in an imaging element, especially for ink jet recording

Claims 6-8 + 13-15 elected

SCIENTIFIC REFERENCE BR
Sci & Tech Inf Ctr
MAY 25 RECD
Pat. & T.M. Office

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STAFF USE ONLY

Searcher: ES
Searcher Phone #:
Searcher Location:
Date Searcher Picked Up:
Date Completed: 6-7-05
Searcher Prep & Review Time:
Clerical Prep Time:
Online Time:

Type of Search

NA Sequence (#)
AA Sequence (#)
Structure (#)
Bibliographic
Litigation
Fulltext
Patent Family
Other

Vendors and cost where applicable

STN
Dialog
Questel/Orbit
Dr.Link
Lexis/Nexis
Sequence Systems
WWW/Internet
Other (specify)

PTO-1590 (8-01)

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FILE 'REGISTRY' ENTERED AT 17:02:21 ON 07 JUN 2005
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     FILE 'HCAPLUS' ENTERED AT 16:19:14 ON 07 JUN 2005
L1          2106 S MERKEL ?/AU
L2          6179 S BARBER ?/AU
L3          2294 S PITT ?/AU
L4             1 S L1 AND L2 AND L3
                 SEL L4 1 RN

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L5            10 S E1-E10
L6             1 S L5 AND SI/ELS
L7             9 S L5 NOT L6

     FILE 'HCA' ENTERED AT 16:23:48 ON 07 JUN 2005
L8           344 S L7
L9          7882 S (IMAGE# OR IMAGING# OR PHOTOIMAG?)(2A)RECORD?
L10        74464 S INK?
L11        19730 S INKJET? OR (JET OR JETS OR JETTED OR JETTING#)(2A)PRINT
L12            6 S L8 AND L9
L13           64 S L8 AND L10
L14           51 S L8 AND L11
L15           51 S L13 AND L14

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L17            1 S E12
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L18            1 S E13
                 SEL L7 4 RN
L19            1 S E14
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                 SEL L7 6 RN
L21            1 S E16
                 SEL L7 7 RN
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L30          14 S L21
L31          12 S L22
L32          12 S L23
L33         193 S L24
L34        7083 S (JET OR JETS OR JETTED OR JETTING#)(2A)RECORD?
L35           4 S (L25 OR L26 OR L27 OR L28 OR L29 OR L30 OR L31 OR L32)
L36          36 S (L25 OR L26 OR L27 OR L28 OR L29 OR L30 OR L31 OR L32)
L37          42 S (L25 OR L26 OR L27 OR L28 OR L29 OR L30 OR L31 OR L32)
L38          36 S L36 AND L37
L39          30 S (L25 OR L26 OR L28 OR L29 OR L30 OR L31 OR L32) AND L10
L40          28 S (L25 OR L26 OR L28 OR L29 OR L30 OR L31 OR L32) AND L11
L41          28 S L39 AND L40

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L48           1 S L42 AND L43 AND L44 AND L45 NOT L47
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                SAV L49 SCH421/A

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L50          54 S L49
L51           0 S L50 AND (L9 OR L10 OR L11 OR L34)
L52      538607 S PRINT? OR RECORD? OR INK?
L53           0 S L50 AND L52
L54           6 S L12 OR L35
L55          26 S L41 NOT L54
L56           2 S L54 AND L41
L57           6 S L54 OR L56
L58          26 S L41 NOT L57
L59          54 S L50 NOT (L57 OR L58)
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FILE 'REGISTRY' ENTERED AT 17:02:21 ON 07 JUN 2005

=> d l49 que stat
L42 STR

F3C~~CF2
1 2

NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 2

STEREO ATTRIBUTES: NONE
L43 STR

CH2-CH2
1 2

NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 2

STEREO ATTRIBUTES: NONE
L44 STR

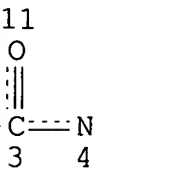
1 S E0

NODE ATTRIBUTES:
HCOUNT IS E0 AT 1
CONNECT IS E2 RC AT 1
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 1

STEREO ATTRIBUTES: NONE

L45 STR



NODE ATTRIBUTES:
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CONNECT IS M2 RC AT 4
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 5

STEREO ATTRIBUTES: NONE
L47 SCR 1839
L49 74 SEA FILE=REGISTRY SSS FUL L42 AND L43 AND L44 AND L45
NOT L47

100.0% PROCESSED 1750 ITERATIONS 74 ANSWERS
SEARCH TIME: 00.00.01

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FILE 'HCA' ENTERED AT 17:03:09 ON 07 JUN 2005
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← (author's registry numbers)

=> d (157) 1-6 cbib abs hitstr hitind

L57 ANSWER 1 OF 6 HCA COPYRIGHT 2005 ACS on STN
142:420087 Lithographic printing plate material with plastic support, **image recording**, manufacture of printing plate, and printing method. Suzuki, Kazuyoshi (Konica Minolta Medical & Graphic, Inc., Japan). Jpn. Kokai Tokkyo Koho JP 2005111694 A2 20050428, 20 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 2003-345421 20031003.
AB The material has an image-forming layer on one side of the plastic support and a backing layer having (A) dry scratch strength .gtoreq.100 g and pencil hardness .gtoreq.H and/or (B) wet scratch

strength .gtoreq.80 g on the other side of the support. **Images** are **recorded** by exposing the material to laser and converting absorbed laser to heat. The plate is manufd. by setting the material on an exposing drum under vacuum, imagewise exposing, without wet developing process. The printing method comprises loading the plate to a printing machine without wet development, developing with a fountain soln. or with the fountain soln. and ink, and printing on paper. The material shows improved abrasion resistance, preventing printing unevenness.

IT **188653-14-7**, Snowtex ZL
(hydrophilic layer contg.; lithog. plate using baking layer hardness-controlled plastic support)

RN 188653-14-7 HCA

CN Snowtex ZL (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IC ICM B41N001-14
ICS G03F007-00; G03F007-004; G03F007-09; G03F007-11

CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

IT 1318-93-0, Mineral Colloid MO, uses 9004-32-4, Carboxymethylcellulose 188653-13-6, Snowtex S **188653-14-7**, Snowtex ZL
(hydrophilic layer contg.; lithog. plate using baking layer hardness-controlled plastic support)

L57 ANSWER 2 OF 6 HCA COPYRIGHT 2005 ACS on STN

142:144119 **Image-recording** element with fluorosurfactant and colloidal particles. Merkel, Paul B.; Barber, Gary N.; Pitt, Alan R.; Wear, Trevor J. (USA). U.S. Pat. Appl. Publ. US 2005013947 A1 20050120, 14 pp. (English). CODEN: USXXCO. APPLICATION: US 2003-622421 20030718.

AB… The invention relates to an **image-recording** element such as an **ink**-jet recording element comprising a support and an image-receiving layer, wherein the image-receiving layer comprises anionic colloidal silica particles, hydrophilic polymeric binder, and fluorosurfactant, wherein the binder is present in an amt. of between 2% and 15% of the image-receiving layer, the **image-recording** element has a 60-degree gloss of greater than 25, and a dry time of less than 1 min.

IT **188653-14-7**, Snowtex ZL
(anionic; **ink**-jet recording element contg. fluorosurfactant and colloidal particles)

RN 188653-14-7 HCA

CN Snowtex ZL (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT **57534-41-5**, Zonyl FSN **65256-46-4**, Forafac 1157 **66039-00-7**, Lodyne S 100 **83653-37-6**, Zonyl FSE

143928-30-7, Fluowet OTN **188652-96-2**, Snowtex MP 1040 **197664-69-0**, Zonyl FS 300 **302778-51-4**, Megafac F 1405
(**ink**-jet recording element contg. fluorosurfactant and colloidal particles)
RN 57534-41-5 HCA
CN Zonyl FSN (9CI) (CA INDEX NAME)
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 65256-46-4 HCA
CN Forafac 1157 (9CI) (CA INDEX NAME)
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 66039-00-7 HCA
CN Lodyne S 100 (9CI) (CA INDEX NAME)
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 83653-37-6 HCA
CN Zonyl FSE (9CI) (CA INDEX NAME)
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 143928-30-7 HCA
CN Fluowet OTN (9CI) (CA INDEX NAME)
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 188652-96-2 HCA
CN Snowtex MP 1040 (9CI) (CA INDEX NAME)
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 197664-69-0 HCA
CN Zonyl FS 300 (9CI) (CA INDEX NAME)
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 302778-51-4 HCA
CN Megafac F 1405 (9CI) (CA INDEX NAME)
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
IC ICM B41M005-00
INCL 428032340
CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 46
ST **ink jet printing recording image** fluorosurfactant colloidal silica particle
IT Surfactants
(fluorosurfactants; **ink**-jet recording element contg. fluorosurfactant and colloidal particles)
IT **Ink**-jet recording sheets
(**ink**-jet recording element contg. fluorosurfactant and colloidal particles)
IT **188653-14-7**, Snowtex ZL
(anionic; **ink**-jet recording element contg. fluorosurfactant and colloidal particles)
IT 7631-86-9, Snowtex YL, uses
(colloidal; **ink**-jet recording element contg. fluorosurfactant and colloidal particles)

IT **57534-41-5**, Zonyl FSN **65256-46-4**, Forafac 1157 **66039-00-7**, Lodyne S 100 **83653-37-6**, Zonyl FSE **143928-30-7**, Fluowet OTN **188652-96-2**, Snowtex MP 1040 **197664-69-0**, Zonyl FS 300 **302778-51-4**, Megafac F 1405
(**ink**-jet recording element contg. fluorosurfactant and colloidal particles)

L57 ANSWER 3 OF 6 HCA COPYRIGHT 2005 ACS on STN
142:45930 **Ink**-jet recording medium and its fabrication method.
Koike, Kazuyuki; Kobayashi, Takashi (Fuji Photo Film Co., Ltd., Japan). Eur. Pat. Appl. EP 1484189 A2 20041208, 21 pp. DESIGNATED STATES: R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR. (English). CODEN: EPXXDW. APPLICATION: EP 2004-13117 20040603. PRIORITY: JP 2003-157598 20030603; JP 2004-143696 20040513.

AB A method for producing an **ink**-jet recording medium, includes: coating a first liq. contg. a water-sol. resin and a crosslinking agent to form a coating layer on a support; and providing a second liq. contg. a metal compd. and a basic compd. to the coating layer either (1) simultaneously with coating of the first liq. or (2) before the coating layer formed of the first liq. The method exhibits a decreasing rate of drying during drying of the coating layer such that the coating layer is hardened by crosslinking to form an **ink** receiving layer on the support. The object of the present invention is to provide an **ink**-jet recording medium and a method for producing an **ink**-jet recording medium which can form an **ink** receiving layer in which no cracks occur, and which is strong, excellent in **ink** absorbability and water resistance, and suppresses yellow discoloration of a **recording** surface (non-**image** portion), bronzing and beading (esp., at printed portions with a high d.).

IT **302778-51-4**, Megafac F 1405
(**ink**-jet recording sheet and its fabrication method)
RN 302778-51-4 HCA
CN Megafac F 1405 (9CI) (CA INDEX NAME)
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
IC ICM B41M005-00
CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
ST **inkjet** recording printing sheet
IT **Ink**-jet recording sheets
(**ink**-jet recording sheet and its fabrication method)
IT 9002-92-0, Emulgen 109P
(Emulgen 109P; **ink**-jet recording sheet and its fabrication method)

IT 9002-89-5, PVA-124
(PVA-124; **ink**-jet recording sheet and its fabrication method)
IT 5153-24-2, ZA 30
(ZA-30; **ink**-jet recording sheet and its fabrication method)
IT 39659-86-4, Zircosol AC-7
(Zircosol AC-7; **ink**-jet recording sheet and its fabrication method)
IT 7631-86-9, Aerosil 300, uses
(colloidal, Aerosil 300, Aerosil 300SF75; **ink**-jet recording sheet and its fabrication method)
IT 10043-35-3, Boric acid, uses
(crosslinking agent; **ink**-jet recording sheet and its fabrication method)
IT 112-34-5, Butysenol 20P 506-87-6, Ammonium carbonate 22829-17-0, Ammonium zirconium carbonate 26062-79-3, Shallol DC902P 177646-18-3, PVA 235 **302778-51-4**, Megafac F 1405 689229-46-7, Chemistat 7005
(**ink**-jet recording sheet and its fabrication method)

L57 ANSWER 4 OF 6 HCA COPYRIGHT 2005 ACS on STN
140:61169 Ink jet **recording** element with **image**-receiving layer containing metal(oxy)hydroxide complex. Sharma, Krishamohan; Bermel, Alexandra D.; Bringley, Joseph F.; Landry-Coltrain, Christine (Eastman Kodak Company, USA). Eur. Pat. Appl. EP 1375177 A2 20040102, 10 pp. DESIGNATED STATES: R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK. (English). CODEN: EPXXDW. APPLICATION: EP 2003-76859 20030616. PRIORITY: US 2002-180395 20020626; US 2002-180179 20020626.
AB An ink jet recording element comprises a support having thereon an image-receiving layer, the ink jet recording element contg. core/shell particles wherein the shell of the particles consists a metal(oxy)hydroxide complex, Mn+(O)a(OH)b(Ap-)c.bul.xH2O, wherein M is at least one metal ion; n is 3 or 4; A is an org. or inorg. ion; p is 1, 2 or 3; and x is equal to or greater than 0; with the proviso that when n is 3, then a, b and c each comprise a rational no. as follows: 0 .ltoreq. a < 1.5; 0 < b < 3; and 0 .ltoreq. pc < 3, so that the charge of the M3+ metal ion is balanced; and when n is 4, then a, b and c each comprise a rational no. as follows: 0 .ltoreq. a < 2; 0 < b < 4; and 0 .ltoreq. pc < 4, so that the charge of the M4+ metal ion is balanced. Thus, core-shell colloidal particles were prepd. from a silica colloid (core) and zirconium(oxy)hydroxy acetate (shell).
IT **57534-41-5**, Zonyl FSN
(surfactant; prodn. of ink-jet **recording** element with **image**-receiving layer contg. metal(oxy)hydroxide complex)

RN 57534-41-5 HCA
CN Zonyl FSN (9CI) (CA INDEX NAME)
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
IC ICM B41M005-00
CC 42-12 (Coatings, Inks, and Related Products)
Section cross-reference(s): 78
IT Hydroxides (inorganic)
(oxyhydroxides; prodn. of ink-jet **recording** element with **image**-receiving layer contg. metal(oxy)hydroxide complex)
IT Ink-jet recording sheets
(paper; prodn. of ink-jet **recording** element with **image**-receiving layer contg. metal(oxy)hydroxide complex)
IT Paper
(printing, ink-jet; prodn. of ink-jet **recording** element with **image**-receiving layer contg. metal(oxy)hydroxide complex)
IT 9002-89-5, Poly(vinyl alcohol)
(Gohsenol GS 17, Gohsenol GH 23A; prodn. of ink-jet **recording** element with **image**-receiving layer contg. metal(oxy)hydroxide complex)
IT 1344-28-1, Alumina, uses
(core, core-shell particles, Cab-O-Sperse PG 003; prodn. of ink-jet **recording** element with **image**-receiving layer contg. metal(oxy)hydroxide complex)
IT 251959-64-5
(dye; prodn. of ink-jet **recording** element with **image**-receiving layer contg. metal(oxy)hydroxide complex)
IT 4845-50-5, 2,3-Dihydroxy-1,4-dioxane
(prodn. of ink-jet **recording** element with **image**-receiving layer contg. metal(oxy)hydroxide complex)
IT 60177-39-1, Divinylbenzene-(vinylbenzyl)trimethylammonium chloride copolymer
(prodn. of ink-jet **recording** element with **image**-receiving layer contg. metal(oxy)hydroxide complex)
IT 4229-34-9D, Zirconium acetate, basic 23363-14-6D, Yttrium acetate, basic
(shell, core-shell particles; prodn. of ink-jet **recording** element with **image**-receiving layer contg. metal(oxy)hydroxide complex)
IT **57534-41-5**, Zonyl FSN
(surfactant; prodn. of ink-jet **recording** element with **image**-receiving layer contg. metal(oxy)hydroxide complex)

L57 ANSWER 5 OF 6 HCA COPYRIGHT 2005 ACS on STN
137:360275 **Image-recording** sheet. Kamiyama, Koji; Dohgoshi, Shigeaki (3M Innovative Properties Company, USA). PCT Int. Appl. WO 2002088847 A1 20021107, 25 pp. DESIGNATED STATES: W:

AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR. (English). CODEN: PIXXD2. APPLICATION: WO 2002-US10246 20020402. PRIORITY: JP 2001-131573 20010427.

AB The present invention provides an **image-recording** sheet capable of improving the gloss of a color **image recorded** thereon without being accompanied with hot-offset even if a toner is disposed in a high concn. on the image-receptive layer. The inventive **image-recording** sheet comprises a paper substrate and an image-receptive layer formed on at least one surface of the paper substrate. The image-receptive layer has a ten-point av. surface roughness (Rz) of 0.1-3.0 mm and contains a thermoplastic resin having storage modulus of 1 x 103 to 1 x 106 Pa at 160.degree.C. The **image-recording** sheet, if desired, may comprise a gloss layer disposed between the paper substrate and the image-receptive layer.

IT **57534-41-5**, Zonyl FSN
(electrophotog. color copying **image-recording** sheet contg.)

RN 57534-41-5 HCA

CN Zonyl FSN (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IC ICM G03G007-00

CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 38

ST electrophotog **image recording** sheet

IT Carnauba wax
(Selosol 524; electrophotog. color copying **image-recording** sheet contg.)

IT Electrophotographic paper
(receptor; electrophotog. color copying **image-recording** sheet)

IT 141-17-3, Di(butoxyethoxyethyl) adipate
(BXA; electrophotog. color copying **image-recording** sheet contg.)

IT 25085-34-1, Acrylic acid-styrene copolymer
(NeoCryl A 1092; electrophotog. color copying **image-recording** sheet contg.)

IT 39355-28-7, Pliolite AC 39382-25-7, Atlac 382E 53621-05-9, MBX-8 54664-34-5, NeoCryl XK-90 **57534-41-5**, Zonyl FSN 198716-78-8, Sancure 776 331722-12-4, WB 50

(electrophotog. color copying **image-recording** sheet contg.)

L57 ANSWER 6 OF 6 HCA COPYRIGHT 2005 ACS on STN
97:205759 Imaging material fabrication. (Fuji Photo Film Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 57041644 A2 19820308 Showa, 4 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1980-116723 19800825.
AB In prepg. of the **image recording** materials by coating a conductive support with an elec. nonconductive recording layer, the areas on which elec. contacts were to be made are coated with the insulating coating compn.-repelling agent prior to the formation of the recording layer. The method is useful for prepn. of electrophotog. plates, electrorecording sheets, and electrog. sheets. Thus, an In2O3-laminated polyester film support was patternwise coated with a silicone oil, and coated with an acrylic resin to give an electrostatic recording sheet.
IT **83653-37-6**
(anticoating masks contg., for electrorecording and electrophotog. material prepn.)
RN 83653-37-6 HCA
CN Zonyl FSE (9CI) (CA INDEX NAME)
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
IC G03G005-14; B41M005-20; B41M005-24; G03G005-05
CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
IT 2991-51-7 67479-85-0 **83653-37-6**
(anticoating masks contg., for electrorecording and electrophotog. material prepn.)

=> d l58 4,8,12,16,20,24,26 cbib abs hitstr hitind

L58 ANSWER 4 OF 26 HCA COPYRIGHT 2005 ACS on STN
142:65369 **Ink jet printing** paper showing excellent **ink**-reception and light-resistance. Nagata, Kozo; Takashima, Masanobu (Fuji Photo Film Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 2004358825 A2 20041224, 40 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 2003-160422 20030605.
AB The title **ink jet printing** paper comprises a support and a colorant-receiving layer including .ltoreq.0.5 .mu.m diam. emulsion contg. hindered amine compd. and/or hindered phenol compd. The emulsion may include 75-95 % sapond. poly(vinyl alc.) and nonionic surfactant and/or cationic surfactant.
IT **302778-51-4**, Megafac F1405
(**ink jet printing** paper showing excellent **ink**-reception and light-resistance)
RN 302778-51-4 HCA
CN Megafac F 1405 (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
IC ICM B41M005-00
ICS B41J002-01
CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 43
ST **ink jet printing** paper recording sheet
hindered amine phenol
IT Polyamines
(hindered amine; **ink jet printing** paper showing excellent **ink**-reception and light-resistance)
IT **Ink**-jet recording sheets
(paper; **ink jet printing** paper showing excellent **ink**-reception and light-resistance)
IT Paper
(**printing, ink-jet; ink jet printing** paper showing excellent **ink**-reception and light-resistance)
IT 991-84-4, Irganox 565 6683-19-8, Irganox 1010 26275-88-7, Sanol LS 744 27676-62-6, Cyanox 1741 35074-77-2, Irganox 259 40601-76-1, Cyanox 1790 65447-77-0, Tinuvin 622LD 90751-07-8, Cyasorb UV 3346 122586-52-1, Tinuvin 123 145849-89-4, Cyasorb UV 3529
(hindered amine; **ink jet printing** paper showing excellent **ink**-reception and light-resistance)
IT 7631-86-9, Reolosil QS 30, uses 9002-92-0, Emulgen 109P 177646-18-3, Poval PVA 235 **302778-51-4**, Megafac F1405
(**ink jet printing** paper showing excellent **ink**-reception and light-resistance)

L58 ANSWER 8 OF 26 HCA COPYRIGHT 2005 ACS on STN
141:396978 Radiation-curable **ink**-jet **ink** compositions, method and apparatus for their use. Takabayashi, Toshiyuki (Konica Minolta Medical & Graphic, Inc., Japan). Jpn. Kokai Tokkyo Koho JP 2004307613 A2 20041104, 35 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 2003-101497 20030404.
AB The odorless **ink** compns. which will not cause wrinkling or curling of substrates or color mixing of printed images, contain fluoro nonionic surfactants of perfluoroalkyl group-contg. ethylene oxide adduct type or/and perfluoroalkyl group-contg. acrylic oligomer type compds. and oxetanyl ring-contg. photo-polymerizable compds. The **inks** are **printable** by **ink** **-jet printers** which do not need special paper for printing.
IT **302778-51-4**, Megafac F 1405
(surfactant; manuf. of odorless radiation-curable **ink**

compns. for **ink-jet printing**)
RN 302778-51-4 HCA
CN Megafac F 1405 (9CI) (CA INDEX NAME)
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
IC ICM C09D011-00
ICS B41J002-01; B41M005-00
CC 42-12 (Coatings, Inks, and Related Products)
ST nonionic surfactant fluoro ethylene oxide adduct radiation curable **ink; jet printing ink**
radiation curable; oxetanyl ring photochem polymerizable compd **ink jet printing ink;**
perfluoroalkyl acrylic oligomer **ink jet printing ink**
IT **Inks**
(**jet-printing**; manuf. of odorless radiation-curable **ink** compns. for **ink-jet printing**)
IT Crosslinking
(radiochem.; manuf. of odorless radiation-curable **ink** compns. for **ink-jet printing**)
IT Fatty acids, uses
(rape-oil, epoxidized, octyl esters, ADK Cizer D 55;reaction products with oxetanyl compd. and OXT 221; manuf. of odorless radiation-curable **ink** compns. for **ink-jet printing**)
IT 18934-00-4DP, OXT 221, reaction products with epoxidized rape-oil fatty acid octyl esters and other oxetanyl compd. 74267-45-1DP, reaction products with epoxidized rape-oil fatty acid octyl esters and OXT 221 785828-67-3P 785828-69-5P 785828-70-8P
(manuf. of odorless radiation-curable **ink** compns. for **ink-jet printing**)
IT 206281-34-7, Megafac F 470 232945-66-3, Megafac F 178K **302778-51-4**, Megafac F 1405 402944-04-1, Megafac F 475 786687-04-5, Megafac Exp. TF 907
(surfactant; manuf. of odorless radiation-curable **ink** compns. for **ink-jet printing**)

L58 ANSWER 12 OF 26 HCA COPYRIGHT 2005 ACS on STN
140:347579 **Ink**-jet recording sheet containing inorganic mordant and betaine-type surfactant in color-receiving layer for reducing image smear under high humidity. Taguchi, Toshiki (Fuji Photo Film Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 2004122520 A2 20040422, 31 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 2002-288367 20021001.
AB The **ink**-jet recording sheet comprises a color-receiving layer formed on a support, wherein the color-receiving layer contains an inorg. mordant and a betaine-type surfactant represented by R1R2R3N+-L-COO- (R1-3 = alkyl, aryl, heterocyclyl; and L =

divalent bonding group). The color-receiving layer may contain a water-sol. resin, and a crosslinker.

IT **302778-51-4**, Megafac F1405
(**ink**-jet recording sheet contg. inorg. mordant and betaine-type surfactant in color-receiving layer for reducing image smear under high humidity)

RN 302778-51-4 HCA

CN Megafac F 1405 (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IC ICM B41M005-00
ICS B41J002-01

CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 46

ST **ink** jet recording sheet paper inorg mordant betaine surfactant

IT **Ink**-jet recording sheets
Mordants
Surfactants
(**ink**-jet recording sheet contg. inorg. mordant and betaine-type surfactant in color-receiving layer for reducing image smear under high humidity)

IT **Ink**-jet recording sheets
(paper; **ink**-jet recording sheet contg. inorg. mordant and betaine-type surfactant in color-receiving layer for reducing image smear under high humidity)

IT Paper
(**printing, ink-jet; ink**-jet recording sheet contg. inorg. mordant and betaine-type surfactant in color-receiving layer for reducing image smear under high humidity)

IT 10043-35-3, Boric acid, uses
(crosslinker; **ink**-jet recording sheet contg. inorg. mordant and betaine-type surfactant in color-receiving layer for reducing image smear under high humidity)

IT 1344-28-1, Alumina, uses 7631-86-9, QS-30, uses 9002-89-5, PVA 9002-92-0, Emulgen 109P 30551-89-4, PAA-10C **302778-51-4**, Megafac F1405
(**ink**-jet recording sheet contg. inorg. mordant and betaine-type surfactant in color-receiving layer for reducing image smear under high humidity)

IT 1318-23-6, Boehmite 63957-70-0, Boehmite
(pseudo-; **ink**-jet recording sheet contg. inorg. mordant and betaine-type surfactant in color-receiving layer for reducing image smear under high humidity)

L58 ANSWER 16 OF 26 HCA COPYRIGHT 2005 ACS on STN
139:92811 **Ink-jet printing** paper having no

defects due to repelling in wet-on-wet coating application. Suzuki, Katsuyoshi; Kobayashi, Takashi; Wakata, Yuichi (Fuji Photo Film Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 2003191627 A2 20030709, 14 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 2001-396987 20011227.

AB The paper have **ink**-receiving layers formed by wet-on-wet application of (i) coatings contg. microparticulate inorg. pigments, water-sol. resins (A), and crosslinking agents and (ii) basic (e.g., pH .gtoreq.8.0) coatings crosslinking A and contg. telomer-type F-contg. surfactants. The surfactants prevent the 1st coating layers from repelling the latter coatings.

IT **302778-51-4**, Megafac F 1405
(**ink**-receiving layers; **ink-jet printing** paper having no defects due to interlayer repelling in wet-on-wet coating application)

RN 302778-51-4 HCA

CN Megafac F 1405 (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IC ICM B41M005-00
ICS B41J002-01

CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 43, 46

ST **ink** jet paper receptor layer defect free; repelling prevention fluorosurfactant **ink** receiving coating; telomer fluorosurfactant **ink** receiving coating wettability

IT Fluoropolymers, uses
(acrylic, **ink**-receiving layers, telomers; **ink-jet printing** paper having no defects due to interlayer repelling in wet-on-wet coating application)

IT Surfactants
(**ink-jet printing** paper having no defects due to interlayer repelling in wet-on-wet coating application)

IT **Ink**-jet recording sheets
(paper; **ink-jet printing** paper having no defects due to interlayer repelling in wet-on-wet coating application)

IT Paper
(**printing, ink-jet; ink-jet printing** paper having no defects due to interlayer repelling in wet-on-wet coating application)

IT **302778-51-4**, Megafac F 1405 402944-04-1, Megafac F 475
(**ink**-receiving layers; **ink-jet printing** paper having no defects due to interlayer repelling in wet-on-wet coating application)

IT 7631-86-9, Reolosil QS 30, uses 30551-89-4, PAA 10C 142517-79-1, Boric acid-PVA 124 copolymer

(**ink**-receiving layers; **ink-jet printing** paper having no defects due to interlayer repelling in wet-on-wet coating application)

L58 ANSWER 20 OF 26 HCA COPYRIGHT 2005 ACS on STN
138:9680 **Ink** jet recording sheet. Yamada, Hisao; Koike, Kazuyuki; Takashima, Masanobu; Nagata, Kozo (Fuji Photo Film Co., Ltd., Japan). Eur. Pat. Appl. EP 1260379 A2 20021127, 31 pp. DESIGNATED STATES: R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR. (English). CODEN: EPXXDW. APPLICATION: EP 2002-11515 20020522. PRIORITY: JP 2001-152237 20010522; JP 2002-108131 20020410.
AB An **ink** jet recording sheet comprises a support, on the support, a colorant-receiving layer including a phenolic compd. and at least one org. mordant selected from the group consisting of a polyallylamines and their derivs., a polyvinylamine and their derivs.
IT **302778-51-4**, Megafac F1405
(mordant soln.; **ink** jet recording sheet contg.)
RN 302778-51-4 HCA
CN Megafac F 1405 (9CI) (CA INDEX NAME)
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
IC ICM B41M005-00
CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
ST **ink** jet recording sheet mordant polyallylamine phenolic compd
IT **Ink-jet printing**
(**ink jet** recording sheet for)
IT 1344-28-1, Alumina, uses 5153-24-2, Zirconyl acetate 7631-86-9, Reolosil QS 30, uses 9002-89-5, PVA 124 9002-92-0, Emulgen 109p 10043-35-3, Boric acid, uses 10099-59-9, Lanthanum nitrate 12042-91-0, PAC 1000 26062-79-3, Shallol DC-902P 29566-78-7, PAS-M-1
(colorant receiving layer coating; **ink** jet recording sheet contg.)
IT 89-86-1 99-10-5 303-07-1 1421-49-4 2114-02-5, Guanylthiourea 2226-96-2 12125-02-9, Ammonium chloride, uses 30551-89-4, PAA-10C 53101-62-5 74186-00-8 **302778-51-4**, Megafac F1405 476621-31-5
(mordant soln.; **ink** jet recording sheet contg.)

L58 ANSWER 24 OF 26 HCA COPYRIGHT 2005 ACS on STN
134:63920 Surfactant-pretreated printing plate substrate, lithographic printing plate, and its production. Aurenty, Patrice M.; Debeaud, Roshanak; Stone, Edward; Kotora, Gordon (Kodak Polychrome Graphics Co. Ltd., USA). PCT Int. Appl. WO 2000076779 A1 20001221, 39 pp. DESIGNATED STATES: W: CA, IL, JP; RW: AT, BE, CH, CY, DE, DK, ES,

FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE. (English). CODEN: PIXXD2. APPLICATION: WO 2000-US40153 20000607. PRIORITY: US 1999-330072 19990611.

AB A printing plate precursor for direct receipt of an image-wise applied **ink** receptive layer, has a desorbable surfactant adsorbed on .gtoreq.1 surface in an amt. to improve the resoln. (low dot spread) of the image-wise applied **ink** receptive layer. The printing plate is prepd. by (a) applying a desorbable surfactant onto .gtoreq.1 surface of a printing plate substrate (Al, film, or paper), (b) removing nonadsorbed surfactant from the surface, (c) applying a fluid compn. contg. an **ink** receptive material onto at least a portion of the surface in the form of a desired image, providing an **ink** receptive image layer; and (d) removing the desorbable surfactant from any area of the surface which does not form part of the desired image.

IT **197664-69-0**, Zonyl FS 300
(surfactant; surfactant-pretreated printing plate substrate for a plate having improved resoln.)

RN 197664-69-0 HCA

CN Zonyl FS 300 (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IC ICM B41N003-03
ICS B41C001-10

CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

ST surfactant pretreated **printing** plate **ink** **jet**; fluoro surfactant pretreated printing plate; resoln improved surfactant pretreated printing plate; lithog printing plate surfactant pretreated

IT 124-22-1, N-Dodecylamine 151-21-3, Sodium dodecylsulfate, uses 577-11-7, Sodium dioctylsulfosuccinate 695-10-3D, 1-Hydroxyethyl-2-imidazoline, alkyl derivs. 1652-63-7, Fluorad FC 135 2027-53-4D, 1-Aminoethyl-2-imidazoline, alkyl derivs. 2991-51-7, Fluorad FC 129 25155-30-0, Sodium dodecylbenzenesulfonate 29117-08-6, Fluorad FC 170C 57534-43-7, Zonyl FSA 67479-86-1, Zonyl FSP 67906-42-7, Fluorad FC 120 68958-61-2, Fluorad FC 171 75026-64-1, Zonyl FSD 80449-64-5, Zonyl FSK 82784-95-0, Zonyl FSJ 101027-76-3, Zonyl FSO 147335-40-8, Fluorad FC 100 **197664-69-0**, Zonyl FS 300 314057-01-7, Zonyl FS 62
(surfactant; surfactant-pretreated printing plate substrate for a plate having improved resoln.)

L58 ANSWER 26 OF 26 HCA COPYRIGHT 2005 ACS on STN

126:252592 **Ink**-jet recording material and producing process thereof. Liu, Bo; Nemoto, Hiroyuki; Ikezawa, Hideo (New Oji Paper Co., Ltd., Japan). Eur. Pat. Appl. EP 759365 A1 19970226, 34 pp. DESIGNATED STATES: R: DE, FR, GB. (English). CODEN: EPXXDW.

APPLICATION: EP 1996-113401 19960821. PRIORITY: JP 1995-212105 19950821; JP 1995-279985 19951027; JP 1995-311909 19951130; JP 1995-343833 19951228; JP 1995-343835 19951228.

AB An **ink**-jet recording material is constituted by a support and a recording layer on the support, in which a plurality of recording layers may be provided. At least one recording layer contains colloidal particles and a water-sol. resin. The recording material is manufd. by applying the recording layer(s) to a support or by applying the recording layer(s) to a forming material, pressing the **ink**-receiving side of the resulting assembly to an adhesive-coated support, and peeling the forming material from the resulting assembly. The recording material exhibits good **ink**-jet **ink** absorption, water resistance, print d., and printed-area gloss. A typical recording material was manufd. by coating a laminate of polyethylene and coated paper with 15% soln. of 100 parts anionic colloidal silica and 10 parts Si-contg. modified PVA.

IT **188652-96-2**, Snowtex MP 1040
(**ink**-jet recording material comprising substrate coated with layer(s) contg. water-sol. polymer and colloidal particles)

RN 188652-96-2 HCA

CN Snowtex MP 1040 (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IC ICM B41M005-00

CC 43-7 (Cellulose, Lignin, Paper, and Other Wood Products)

ST **ink** jet recording material coated paper; silica coated **ink** jet recording material; PVA coated **ink** jet recording material; polyethylene coated paper laminate recording material

IT Silica gel, uses
(Mizukasil P 709; **ink**-jet recording material comprising substrate coated with layer(s) contg. water-sol. polymer and colloidal particles)

IT Paper
(**printing**; **ink-jet** recording material comprising substrate coated with layer(s) contg. water-sol. polymer and colloidal particles)

IT 9002-88-4, Polyethylene
(coated paper laminates, substrates; **ink**-jet recording material comprising substrate coated with layer(s) contg. water-sol. polymer and colloidal particles)

IT 7631-86-9, Snowtex OL, uses
(colloidal, Fineseal X 45; **ink**-jet recording material comprising substrate coated with layer(s) contg. water-sol. polymer and colloidal particles)

IT 7631-86-9D, Silica, ionically modified, uses 9002-89-5, PVA 117 9002-89-5D, PVA, silicon derivs. 30850-72-7, R-2105 143710-17-2, MP 103 173940-66-4, Snowtex AK-ZL 188652-91-7, Snowtex 20L

188652-96-2, Snowtex MP 1040 188652-97-3, Snowtex MP 3030 188653-04-5, PVA-R 3109 188653-11-4, Snowtex AK-XL 188653-12-5, Snowtex AK-YL 188653-13-6, Snowtex S 188653-14-7, Snowtex ZL
(**ink**-jet recording material comprising substrate coated with layer(s) contg. water-sol. polymer and colloidal particles)

structure search

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L59 ANSWER 1 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI Coating composition for photographic materials

L59 ANSWER 2 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI Fluorinated surfactants in overcoat compositions and elements containing same

L59 ANSWER 3 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI Fluorous thiols in oligosaccharide synthesis

L59 ANSWER 4 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI Fluorosurfactants and antistatic photographic materials using them with uniform film surface

L59 ANSWER 5 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI Silver halide photographic films containing specific fluoro surfactant

L59 ANSWER 6 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI 2,6-bis-(N,N-dialkyldithiocarbamate)-4-diaklylamino-1,3,5- triazine derivative as extreme pressure-antioxidant lubricant additive

L59 ANSWER 7 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI Fluorinated surfactants in overcoat compositions and elements containing same

L59 ANSWER 8 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI synthesis of fluorinated hydrogen bond stabilized surface modifying agents and their use for the preparation of self-assembled monolayer

L59 ANSWER 9 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI polyalkylenepolyaminesfor stripping harmful metal ions from polluted waters

L59 ANSWER 10 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI Synthesis and activity of substituted anilines as androgen receptor suppressors in the therapy and diagnosis of prostate cancer, alopecia and other hyper-androgenic syndromes

L59 ANSWER 11 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI Use of metal complexes containing perfluoroalkyl as contrast agents in MR-imaging for the representation of plaques, tumors and necroses

L59 ANSWER 12 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI Manufacture of lightweight noise-suppressing gypsum boards

L59 ANSWER 13 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI Synthesis and activity of substituted anilines as androgen receptor suppressors in the therapy and diagnosis of prostate cancer, alopecia and other hyper-androgenic syndromes

L59 ANSWER 14 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI Contrast agent formulations containing paramagnetic and diamagnetic perfluoroalkyl compounds for magnetic resonance tomography

L59 ANSWER 15 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI Preparation of amides and ureas as androgen receptor suppressors

L59 ANSWER 16 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI Straight-chain and branched perfluoroalkyl halides and derivatives, their preparation, fluoropolymers, and use as oil- and water-repellant treatment agents for surfaces

L59 ANSWER 17 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI Perfluoroalkyl halides and derivatives for surface treatment

L59 ANSWER 18 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI Stabilization of integral membrane proteins in aqueous solution using fluorinated surfactants

L59 ANSWER 19 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI Cell targeting by glycosidic telomers. Specific recognition of the Kb CWL1 lectin by galactosylated telomers

L59 ANSWER 20 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI Synergistic surfactant compositions and aqueous film-forming fire-fighting concentrate compositions thereof, and method for treating aqueous waste streams obtained from the concentrate compositions

L59 ANSWER 21 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI Perfluoroalkylated telomers derived from tris(hydroxymethyl)acrylamidomethane as surfactants and co-surfactants in fluorocarbon emulsions

L59 ANSWER 22 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI Synthesis of nonionic glycosidic surfactants derived from

tris(hydroxymethyl)aminomethane. Preliminary assessment

L59 ANSWER 23 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI Synthesis of a perfluorocarbon telomer derived from tris(hydroxymethyl)-14C- and 13C-acrylamidomethane (F-TAC)

L59 ANSWER 24 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI Synthesis of a telomeric perfluorocarbon derivative of tris(hydroxymethyl)(carbon-14 and -13-labeled acrylamido)methane (F-TAC)

L59 ANSWER 25 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI Perfluoroalkyl halides and derivatives as precursors for oil and water repellants and surfactants

L59 ANSWER 26 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI Telomeric THAM-derived perfluoroalkylated surfactants for fluorocarbon emulsions

L59 ANSWER 27 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI Efficiency of non-ionic telomeric surfactants for the solubilization of subcellular fractions proteins

L59 ANSWER 28 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI Alcohol-resistant aqueous film-forming fire-extinguishing foams

L59 ANSWER 29 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI New perfluoroalkyl telomeric nonionic surfactants: synthesis, physicochemical and biological properties

L59 ANSWER 30 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI Amphiphilic fluorine derivatives with telomeric structures for biomedical applications

L59 ANSWER 31 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI Interaction of the lymphoid cell line BCL1 with lipopeptide analogs of bacterial lipoprotein: electron energy loss spectroscopy (EELS) as a novel method to detect the distribution of the activator within the cells

L59 ANSWER 32 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI Transportable aqueous crude petroleum emulsions containing an anionic or nonionic fluorine-containing surfactant and a non-fluorinated surfactant

L59 ANSWER 33 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI Polysaccharide/perfluoroalkyl complexes

L59 ANSWER 34 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI Localization of the cell activator lipopeptide in bone marrow-derived macrophages by electron energy loss spectroscopy (EELS)

L59 ANSWER 35 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI Antistatic dye image-fixing sheet for photothermography

L59 ANSWER 36 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI Cationic surfactants

L59 ANSWER 37 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI Perfluoroalkyl anion/perfluoroalkyl cation ion pair complexes

L59 ANSWER 38 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI Separation and recovery of ionic substances using fluorine-containing substances

L59 ANSWER 39 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI Concentrating, collecting, and controlling oil spilled on water

L59 ANSWER 40 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI Perfluoroalkylthioaminimide derivatives

L59 ANSWER 41 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI Improved fluorinated surfactant

L59 ANSWER 42 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI Perfluoroalkylthioamidoamine and -ammonium compounds

L59 ANSWER 43 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI Characterization of mixtures of dipeptides by gas chromatography/mass spectrometry

L59 ANSWER 44 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI Aqueous wetting and film-forming compositions

L59 ANSWER 45 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI Nucleophilic displacements on .beta.-(perfluoroalkyl)ethyl iodides. Synthesis of acrylates containing heteroatoms

L59 ANSWER 46 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI Fluorinated sulfonic acids and derivatives thereof

L59 ANSWER 47 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI Fluorinated acrylic monomers containing hetero atoms and their polymers

L59 ANSWER 48 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI Fluorinated acrylic monomers containing hetero atoms and their polymers

L59 ANSWER 49 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI Fluorinated acrylic monomers containing hetero atoms

L59 ANSWER 50 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI Oil and soil repellent impregnants for textiles

L59 ANSWER 51 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI Fluorinated alcohols, methacryrlates, and polymers for textile impregnation

L59 ANSWER 52 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI Fluorinated thio ether-acrylic esters and their polymers

L59 ANSWER 53 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI Fluorinated acrylic monomers containing hetero atoms and their polymers

L59 ANSWER 54 OF 54 HCA COPYRIGHT 2005 ACS on STN
TI Water-proofing textiles

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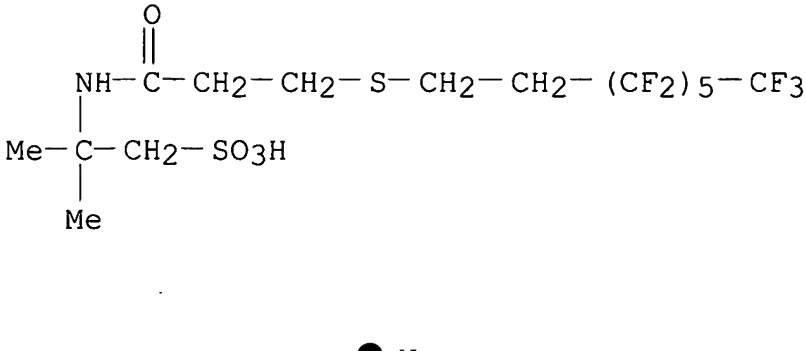
L59 ANSWER 1 OF 54 HCA COPYRIGHT 2005 ACS on STN
141:251364 Coating composition for photographic materials. Moon, Alice G.; Pavlik, Mark P.; Orem, Michael W. (USA). U.S. Pat. Appl. Publ. US 2004170933 A1 20040902, 13 pp., Cont.-in-part of U.S. Ser. No. 193,340. (English). CODEN: USXXCO. APPLICATION: US 2003-704003 20031107. PRIORITY: US 2002-193340 20020711.

AB A coating compn. for use in a photog. element, the compn. comprising an aq. soln. of: two or more surfactants; a hydrophilic binder; and optional matte particles; wherein one of the surfactants is represented by: Rf-CH2CH2-(B)y-A (Rf = F(CF2 CF2)n; n = 3, 4, 5; and the fraction of all Rf with n = 3 is at least 40%; B = divalent linking group; y = 0 or 1; and A is an anionic group with a counterion or an amphoteric group). A photog. element contg. the coating compn. is also disclosed.

IT **62880-93-7**
(fluorosurfactant; coating compn. for photog. materials contg.)

RN 62880-93-7 HCA
CN 1-Propanesulfonic acid, 2-methyl-2-[[1-oxo-3-[(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)thio]propyl]amino]-, monosodium salt (9CI) (CA INDEX NAME)



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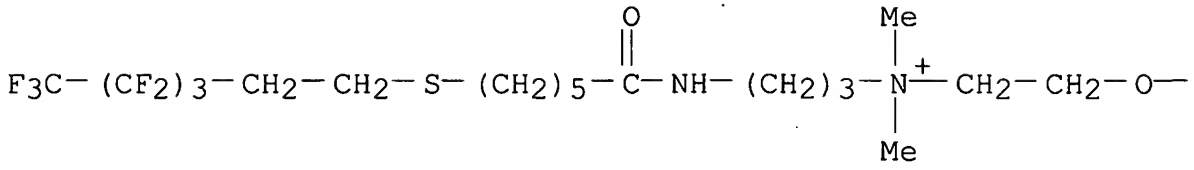
IC ICM G03C001-85
ICS G03C001-38; C08L089-00; C09D189-00; B01D012-00; B01F017-00
INCL 430527000; 430528000; 430529000; 430636000; 430961000; 106154300; 106154400; 106170200; 106170260; 106170370
CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
IT 34455-29-3 **62880-93-7**
(fluorosurfactant; coating compn. for photog. materials contg.)

L59 ANSWER 4 OF 54 HCA COPYRIGHT 2005 ACS on STN
139:267924 Fluorosurfactants and antistatic photographic materials using them with uniform film surface. Ishizuka, Takahiro (Fuji Photo Film Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 2003270760 A2 20030925, 36 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 2002-74409 20020318.
AB The photog. materials contain fluorosurfactants R(CF2)mCH2CH2YL1N+R1R2L2[N+R3R4L3YCH2CH2(CF2)nRX-]pX- [R = H, F; m, n = 3-16; Y = single bond, S, SO2, SO, O; L1, L3 = C.gtoreq.4-divalent group; L2 = (p + 1)-valent group; p = 1-6; R1-4 = H, alkyl; X- = counter anion].
IT **603972-66-3P**
(fluorosurfactant; fluorosurfactants for antistatic photog. films with uniform film surface)
RN 603972-66-3 HCA
CN 3,6-Dioxa-20-thia-13-aza-9-azoniahexacosan-1-aminium, 23,23,24,24,25,25,26,26,26-nonafluoro-N,N,9,9-tetramethyl-N-[3-[[6-[(3,3,4,4,5,5,6,6,6-nonafluorohexyl)thio]-1-oxohexyl]amino]propyl]-14-oxo-, salt with 4-methylbenzenesulfonic acid (1:2) (9CI) (CA INDEX NAME)

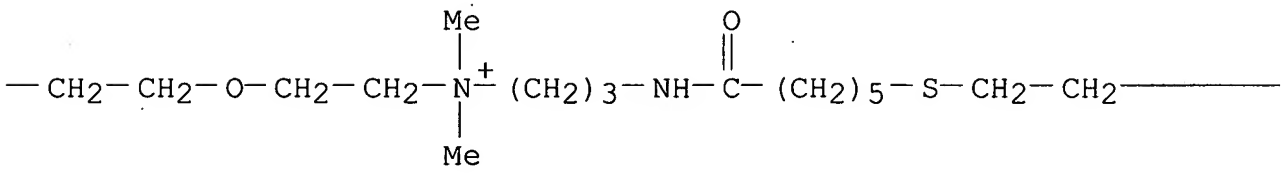
CM 1

CRN 603972-65-2
CMF C40 H66 F18 N4 O4 S2

PAGE 1-A



PAGE 1-B



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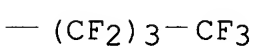

CM 2

CRN 16722-51-3
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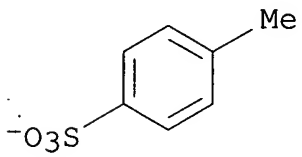


IT **603972-70-9 603972-71-0**
(fluorosurfactant; fluorosurfactants for antistatic photog. films with uniform film surface)

RN 603972-70-9 HCA

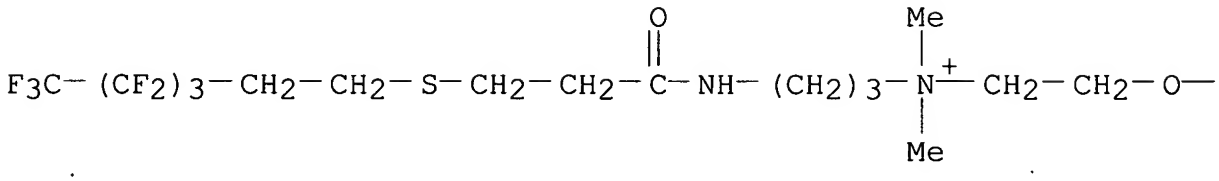
CN 3,6-Dioxa-17-thia-13-aza-9-azoniatricosan-1-aminium, 20,20,21,21,22,22,23,23,23-nonafluoro-N,N,9,9-tetramethyl-N-[3-[[3-[(3,3,4,4,5,5,6,6,6-nonafluorohexyl)thio]-1-oxopropyl]amino]propyl]-14-oxo-, salt with 4-methylbenzenesulfonic acid (1:2) (9CI) (CA

INDEX NAME)

CM 1

CRN 603972-69-6
CMF C34 H54 F18 N4 O4 S2

PAGE 1-A



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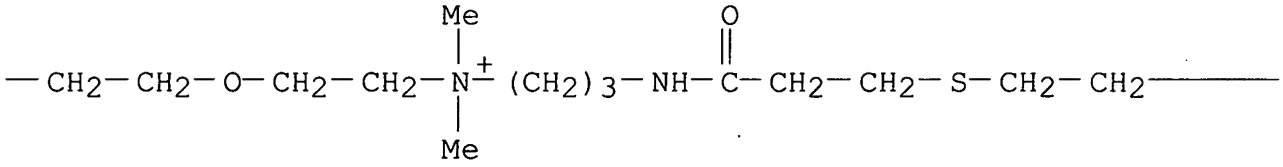

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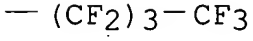
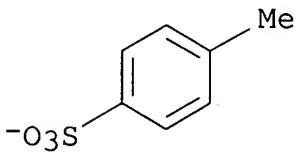


CM 2

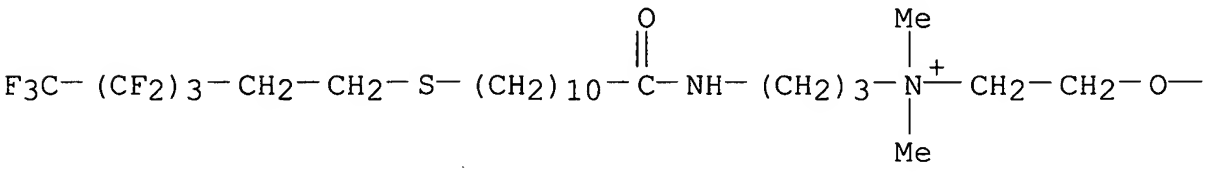
CRN 16722-51-3
CMF C7 H7 O3 S



RN 603972-71-0 HCA
CN 3,6-Dioxa-25-thia-13-aza-9-azoniahentriacontan-1-aminium,

28,28,29,29,30,30,31,31,31-nonafluoro-N,N,9,9-tetramethyl-N-[3-[[11-[(3,3,4,4,5,5,6,6,6-nonafluorohexyl)thio]-1-oxoundecyl]amino]propyl]-14-oxo-, diiodide (9CI) (CA INDEX NAME)

PAGE 1-A



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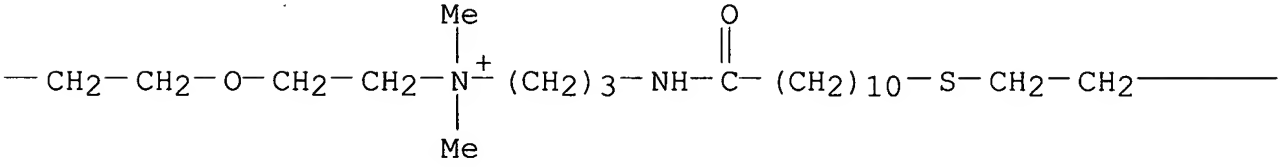
PAGE 1-B



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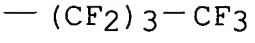
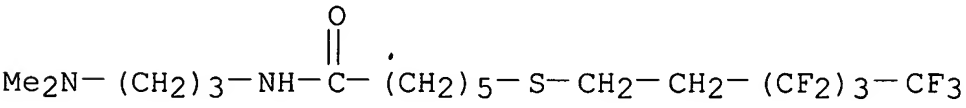


IT **603972-72-1**
(fluorosurfactants for antistatic photog. films with uniform film surface)

RN 603972-72-1 HCA

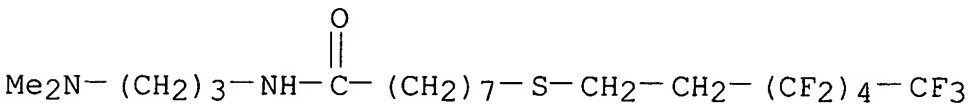
CN Hexanamide, N-[3-(dimethylamino)propyl]-6-[(3,3,4,4,5,5,6,6,6-nonafluorohexyl)thio]- (9CI) (CA INDEX NAME)



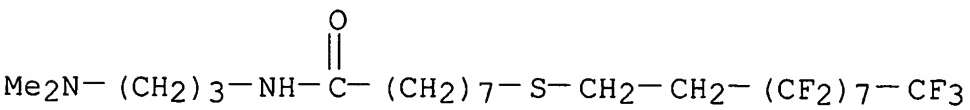
IC ICM G03C001-85

ICS G03C001-38
CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 46
IT **603972-66-3P**
(fluorosurfactant; fluorosurfactants for antistatic photog. films with uniform film surface)
IT 603972-68-5 **603972-70-9 603972-71-0**
(fluorosurfactant; fluorosurfactants for antistatic photog. films with uniform film surface)
IT 19249-03-7, Triethylene glycol bis(p-toluenesulfonate) **603972-72-1**
(fluorosurfactants for antistatic photog. films with uniform film surface)

L59 ANSWER 5 OF 54 HCA COPYRIGHT 2005 ACS on STN
138:409295 Silver halide photographic films containing specific fluoro surfactant. Ishizuka, Takahiro; Yanagi, Terukazu (Fuji Photo Film Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 2003149759 A2 20030521, 36 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 2001-351970 20011116.
AB The title photog. film has light-sensitive silver halide emulsion layers on a support, wherein the silver halide emulsion layer contains fluoro surfactant R-(CF2)m-CH2CH2-Y-L-N+(R1)(R2)(R3) X-n (R = H, F; m = 3-16 integer; Y = S, SO2, O; L = 2-valent C.gtoreq.4 connecting group; R1-3 = H, alkyl; X_ = counter anion). The photog. film generates little electrostatic problems and is manufd. in high quality.
IT **528840-67-7P 528840-69-9P**
(fluoro surfactant)
RN 528840-67-7 HCA
CN Octanamide, N-[3-(dimethylamino)propyl]-8-[(3,3,4,4,5,5,6,6,7,7,7-undecafluoroheptyl)thio]- (9CI) (CA INDEX NAME)



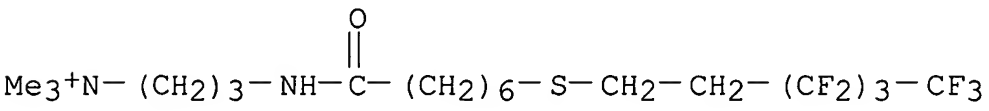
RN 528840-69-9 HCA
CN Octanamide, N-[3-(dimethylamino)propyl]-8-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)thio]- (9CI) (CA INDEX NAME)



IT **528840-72-4P 528840-75-7P 528840-77-9P**
(fluoro surfactant)
RN 528840-72-4 HCA
CN 1-Propanaminium, N,N,N-trimethyl-3-[[7-[(3,3,4,4,5,5,6,6,6-nonafluorohexyl)thio]-1-oxoheptyl]amino]-, salt with 4-methylbenzenesulfonic acid (1:1) (9CI) (CA INDEX NAME)

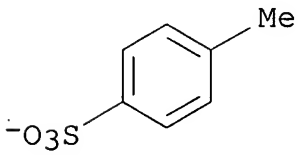
CM 1

CRN 528840-71-3
CMF C19 H32 F9 N2 O S



CM 2

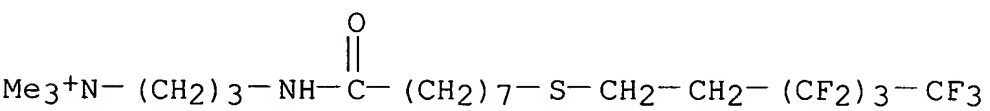
CRN 16722-51-3
CMF C7 H7 O3 S



RN 528840-75-7 HCA
CN 1-Propanaminium, N,N,N-trimethyl-3-[[8-[(3,3,4,4,5,5,6,6,6-nonafluorohexyl)thio]-1-oxooctyl]amino]-, salt with 4-methylbenzenesulfonic acid (1:1) (9CI) (CA INDEX NAME)

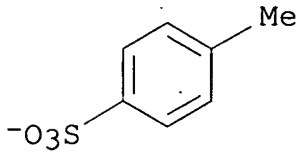
CM 1

CRN 528840-74-6
CMF C20 H34 F9 N2 O S



CM 2

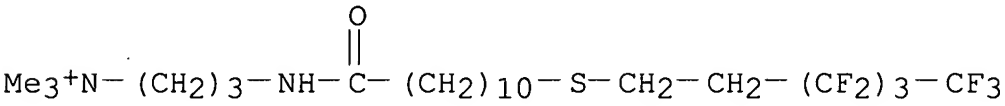
CRN 16722-51-3
CMF C7 H7 O3 S



RN 528840-77-9 HCA
CN 1-Propanaminium, N,N,N-trimethyl-3-[[11-[(3,3,4,4,5,5,6,6,6-nonafluorohexyl)thio]-1-oxoundecyl]amino]-, salt with 4-methylbenzenesulfonic acid (1:1) (9CI) (CA INDEX NAME)

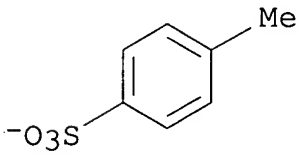
CM 1

CRN 528840-76-8
CMF C23 H40 F9 N2 O S



CM 2

CRN 16722-51-3
CMF C7 H7 O3 S



IC ICM G03C001-38
ICS G03C001-035; G03C001-76
CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
IT **528840-67-7P 528840-69-9P**
(fluoro surfactant)
IT **528840-72-4P 528840-75-7P 528840-77-9P**
528840-79-1P
(fluoro surfactant)

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L61          16 S L60 AND 1/N
                SEL L61 4,5,6,7,10 RN
L62           5 S E20-E24

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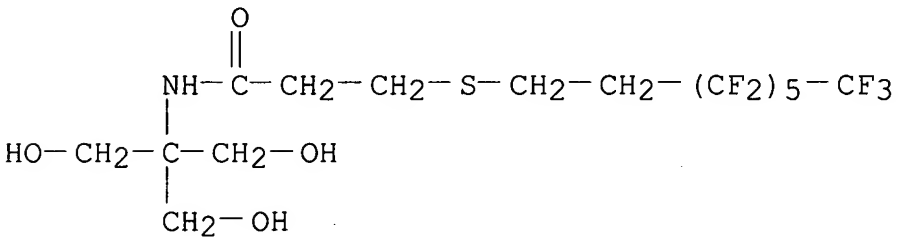
L63  ANSWER 1 OF 7  HCA  COPYRIGHT 2005 ACS on STN
129:344732  Stabilization of integral membrane proteins in aqueous
     solution using fluorinated surfactants.  Chabaud, E.; Barthelemy,
     P.; Mora, N.; Popot, J. L.; Pucci, B. (Laboratoire de Physico-Chimie
     Moleculaire des Membranes Biologiques, CNRS-UPR 9052, Institut de
     Biologie Physico-Chimique and Universite Paris-7, Paris, F-75005,
     Fr.).  Biochimie, 80(5-6), 515-530 (English) 1998.  CODEN: BICMBE.
     ISSN: 0300-9084.  Publisher: Editions Scientifiques et Medicales
     Elsevier.
AB   Surfactants carrying either a hydrocarbon or a fluorocarbon alkyl
     chain were synthesized.  The polar head was either
     tris(hydroxymethyl)acrylamidomethane (THAM), telomerized THAM, or a
     glycosylated THAM moiety.  The aq. soly. of some of these mols. was
     increased by oxidizing to a sulfoxide the thioether function that
     assocs. their hydrophobic and hydrophilic moieties.  In all cases,
     the crit. micellar concn. was principally detd. by the length and
     chem. nature of the alkyl chain.  The usefulness of these
     surfactants in handling integral membrane proteins in soln. was
     examd. using as test materials chloroplast thylakoid membranes and
     the photosynthetic complex cytochrome b6f.  In keeping with earlier
     observations in other systems, none of the fluorinated surfactants
     was able to solubilize thylakoid membranes.  Transfer to a soln. of
     fluorinated surfactant of b6f complexes that had been solubilized
     and purified in the presence of a classical detergent usually
     resulted in aggregation and pptn. of the protein, while most
     homologous mols. with hydrocarbon chains did keep the b6f complex
```

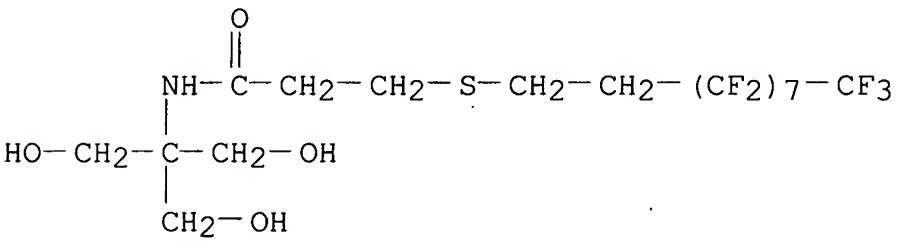
sol. Two of the fluorinated surfactants, however, proved able to maintain the b6f complex water-sol., intact, and enzymically active. Because of their limited affinity for lipid alkyl chains and other hydrocarbon surfaces, fluorinated surfactants appear as potentially interesting tools for the study of membrane proteins that do not stand well exposure to classical detergents.

IT **142873-12-9 144837-20-7**
(starting material; stabilization of integral membrane proteins in aq. soln. using fluorinated surfactants)

RN 142873-12-9 HCA
CN Propanamide, N-[2-hydroxy-1,1-bis(hydroxymethyl)ethyl]-3-[(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)thio]- (9CI) (CA INDEX NAME)



RN 144837-20-7 HCA
CN Propanamide, 3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)thio]-N-[2-hydroxy-1,1-bis(hydroxymethyl)ethyl]- (9CI) (CA INDEX NAME)



IT **142873-12-9 144837-20-7**
(starting material; stabilization of integral membrane proteins in aq. soln. using fluorinated surfactants)

L63 ANSWER 2 OF 7 HCA COPYRIGHT 2005 ACS on STN
128:132366 Cell targeting by glycosidic telomers. Specific recognition of the Kb CWL1 lectin by galactosylated telomers. Coulon, Joel; Bonaly, Roger; Pucci, Bernard; Polidori, Ange; Barthelemy, Philippe; Contino, Christiane (Nancy 1 Faculte de Pharmacie Laboratoire de Biochimie Microbienne, Universite Henri Poincare, Nancy, 54001, Fr.). Bioconjugate Chemistry, 9(2), 152-159 (English) 1998. CODEN:

BCCHES. ISSN: 1043-1802. Publisher: American Chemical Society.

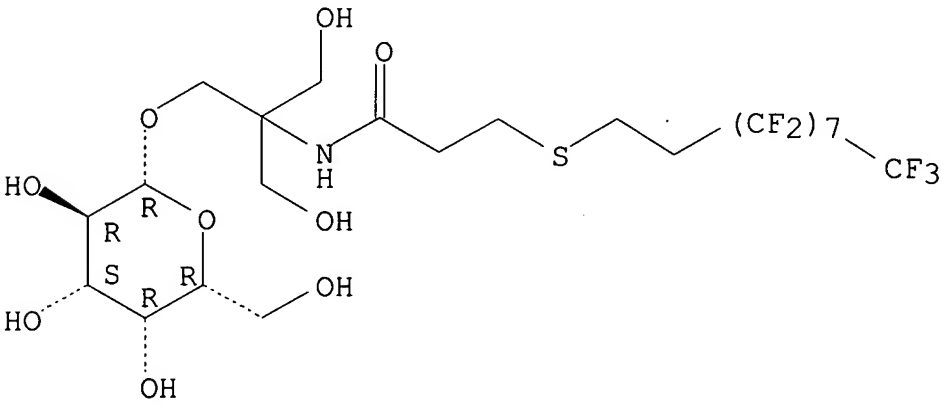
AB To investigate if telomeric carriers could exhibit cellular recognition properties, mono- and polygalactosylated tris(hydroxymethyl)acrylamidomethane telomers were synthesized. The affinity of such macromol. drug carriers toward a receptor, the yeast Kb CWL1 lectin, was defined, and the influence of mono- or polygalactosylation on recognition was assessed. The lectin affinity of the compds. was estd. by measuring the inhibition of yeast aggregation. The av. d.p. as well as the HLB of such galactosylated telomers affected their recognition ability for the lectin.

IT **200407-48-3**
(cell targeting by glycosidic telomers: specific recognition of the Kb CWL1 lectin by galactosylated telomers)

RN 200407-48-3 HCA

CN Propanamide, N-[2-(.beta.-D-galactopyranosyloxy)-1,1-bis(hydroxymethyl)ethyl]-3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)thio]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT **200407-48-3**
(cell targeting by glycosidic telomers: specific recognition of the Kb CWL1 lectin by galactosylated telomers)

L63 ANSWER 3 OF 7 HCA COPYRIGHT 2005 ACS on STN

122:217184 Perfluoroalkylated telomers derived from tris(hydroxymethyl)acrylamidomethane as surfactants and co-surfactants in fluorocarbon emulsions. Myrtil, Evelyne; Zarif, Leila; Greiner, Jacques; Riess, Jean G.; Pucci, Bernard; Pavia, Andre A. (Laboratoire de Chimie Moleculaire, CNRS URA 426, Universite de Nice-Sophia Antipolis, Faculte des Sciences, Nice, 06108/2, Fr.). Journal of Fluorine Chemistry, 71(1), 101-5 (English) 1995. CODEN: JFLCAR. ISSN: 0022-1139. Publisher:

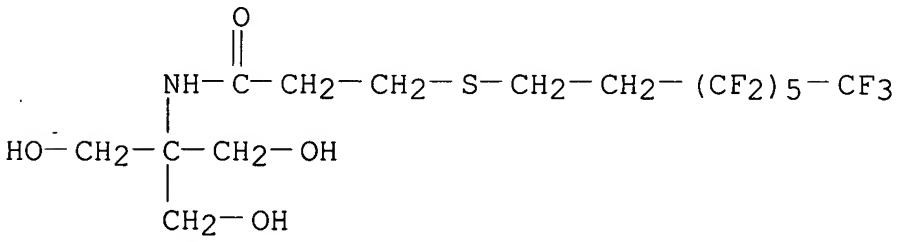
Elsevier.

AB The ability of perfluoroalkylated telomers derived from tris(hydroxymethyl)acrylamidomethane (TAC) to stabilize fluorocarbon emulsions has been investigated. For this purpose, 50% w/v emulsions of perfluorodecalin (FDC) and perfluoro-octyl bromide (PFOB) were prepd. with a total 3% w/v of surfactant and were compared with emulsions prepd. with Pluronic F-68 or egg yolk phospholipids (EYP). When used as the sole surfactant, telomers 1 (TAC with a C6F13 chain and a no.-av. d.p. n.apprx.6) and 2 (C8F17TAC, n.apprx.6) produced FDC emulsions that were more stable than with Pluronic F-68 alone; when compared to EYP, no improvement was found. When assocd. to other, less-hydrophilic perfluoroalkylated surfactants, such as (C6F13TAC, n = 1) or [1-O-(perfluoro-octyl)-2'-propenyl]xylitol, for certain formulations these telomers resulted in somewhat enhanced stabilization of both FDC and PFOB emulsions. In some cases, the emulsions were as stable as those prepd. with EYP alone. When telomer 1 was used as a co-emulsifier with EYP, no noticeable stabilization was obsd.; with Pluronic F-68, emulsion stability was reduced.

IT **142873-12-9**
(perfluoroalkylated telomers derived from tris(hydroxymethyl)acrylamidomethane as surfactants in fluorocarbon emulsions)

RN 142873-12-9 HCA

CN Propanamide, N-[2-hydroxy-1,1-bis(hydroxymethyl)ethyl]-3-[(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)thio]- (9CI) (CA INDEX NAME)



IT **142873-12-9**
(perfluoroalkylated telomers derived from tris(hydroxymethyl)acrylamidomethane as surfactants in fluorocarbon emulsions)

L63 ANSWER 4 OF 7 HCA COPYRIGHT 2005 ACS on STN

121:303580 Synthesis of nonionic glycosidic surfactants derived from tris(hydroxymethyl)aminomethane. Preliminary assessment. Polidori, A.; Pucci, B.; Maurizis, J. C.; Pavia, A. A. (Laboratorie de Chimie Bioorganique, Faculte des Sciences d'Avignon, Avignon, 84000, Fr.). New Journal of Chemistry, 18(7), 839-48 (English) 1994. CODEN:

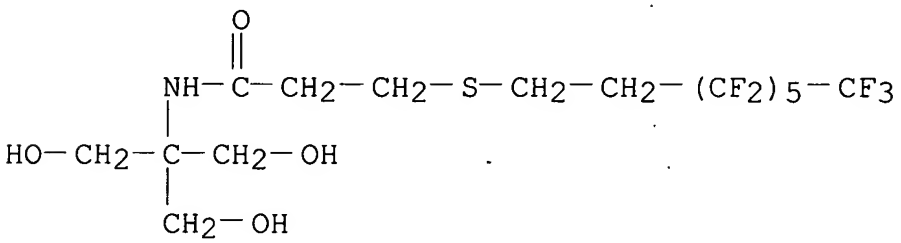
NJCHE5. ISSN: 1144-0546.

AB This report deals with the synthesis, physicochem., and biol. assessment of nonionic glycolipidic surfactants derived from Tris(hydroxymethyl)aminomethane (TRIS). These compds. were obtained by radical telomerization of mono-, di-, and tri-O-galactosyl Tris(hydroxymethyl) acrylamidomethane (THAM) in the presence of an alkane and/or fluoroalkanethiol as the transfer reagent and AIBN as the radical initiator. The no. of TRIS residues in the polar head (.hivin.D.hivin.Pn) allows the modulation of the hydrophilic-lipophilic balance (HLB) as well as the tensioactive properties in general, as shown through the study of the surface tension. Biol. assays on subcellular rat-liver cell fractions showed that the .hivin.D.hivin.Pn does not affect the solubilizing properties with respect to membrane proteins. In contrast, increasing the size of the TRIS motifs by O-glycosylation decreases the solubilizing power.

IT **142873-12-9P 144837-20-7P 159179-87-0P**
(prepn. and surface tension properties of)

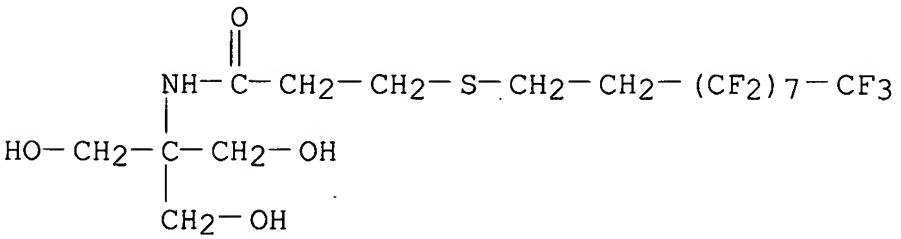
RN 142873-12-9 HCA

CN Propanamide, N-[2-hydroxy-1,1-bis(hydroxymethyl)ethyl]-3-[(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)thio]- (9CI) (CA INDEX NAME)



RN 144837-20-7 HCA

CN Propanamide, 3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)thio]-N-[2-hydroxy-1,1-bis(hydroxymethyl)ethyl]- (9CI) (CA INDEX NAME)

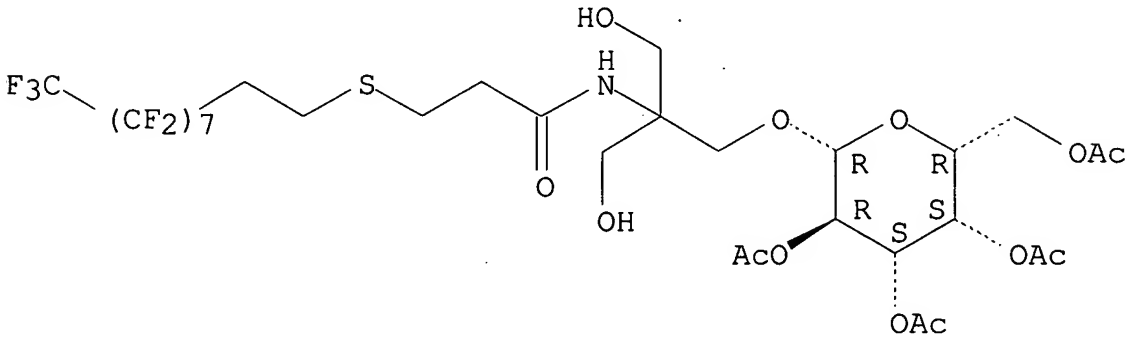


RN 159179-87-0 HCA

CN Propanamide, N-[1,1-bis(hydroxymethyl)-2-[(2,3,4,6-tetra-O-acetyl-

.beta.-D-galactopyranosyl)oxy]ethyl]-3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)thio]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT **142873-12-9P 144837-20-7P 159179-87-0P**
(prepn. and surface tension properties of)

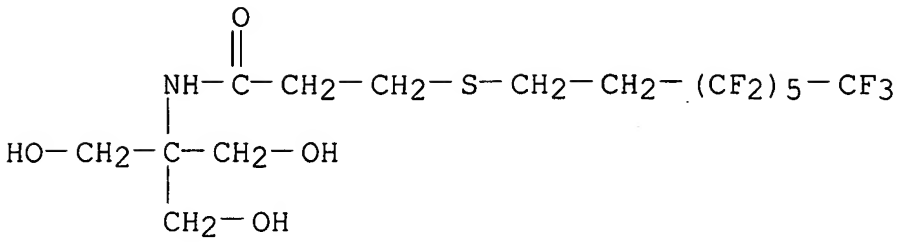
L63 ANSWER 5 OF 7 HCA COPYRIGHT 2005 ACS on STN
117:258138 New perfluoroalkyl telomeric nonionic surfactants: synthesis, physicochemical and biological properties. Pavia, Andre A.; Pucci, Bernard; Riess, Jean G.; Zarif, Leila (Lab. Chim. Bioorg., Fac. Sci., Avignon, 84000, Fr.). Makromolekulare Chemie, 193(9), 2505-17 (English) 1992. CODEN: MACEAK. ISSN: 0025-116X.

AB Both the exptl. conditions and the kinetic parameters governing the telomerization of hydroxy-functional acryloyl derivs. in the presence of perfluoroalkanethiols were detd. with the purpose of synthesizing new amphiphilic telomers with high surface activity for the prepn. of stable perfluoro emulsions capable of carrying oxygen in vivo. Several perfluoro-alkylated nonionic telomeric surfactants (FmTACn) were obtained in one step with an av. yield of 80%, by free-radical telomerization of tris(hydroxymethyl)acrylamidomethane in the presence of various perfluoroalkanethiols as chain-transfer reagents. Surface activity, crit. micelle concn. and emulsifying capability established the superiority of the FmTACn surfactants over Pluronic F68, the major surfactant used presently in the FDA-approved injectable fluorocarbon emulsion, Fluosol.

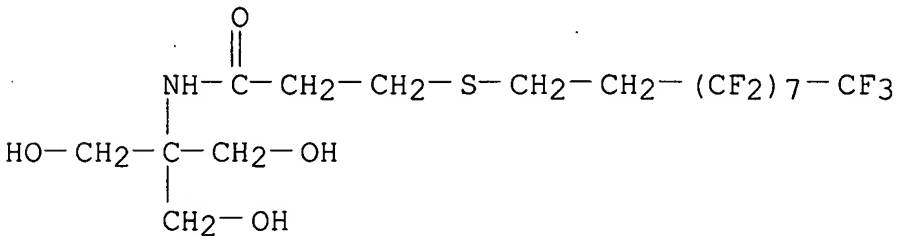
IT **142873-12-9 144837-20-7**
(fluorocarbons emulsification by, for oxygen carriers)

RN 142873-12-9 HCA

CN Propanamide, N-[2-hydroxy-1,1-bis(hydroxymethyl)ethyl]-3-[(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)thio]- (9CI) (CA INDEX NAME)



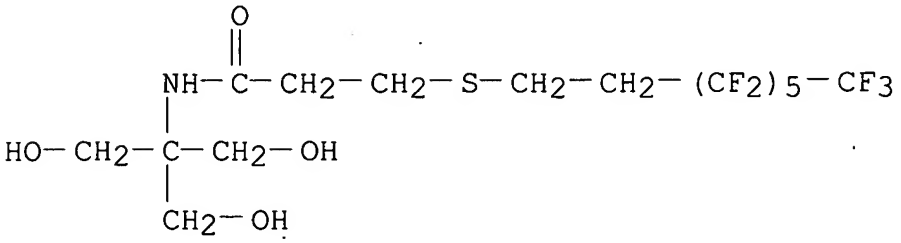
RN 144837-20-7 HCA
CN Propanamide, 3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)thio]-N-[2-hydroxy-1,1-bis(hydroxymethyl)ethyl]- (9CI) (CA INDEX NAME)



IT **142873-12-9 144837-20-7**
(fluorocarbons emulsification by, for oxygen carriers)

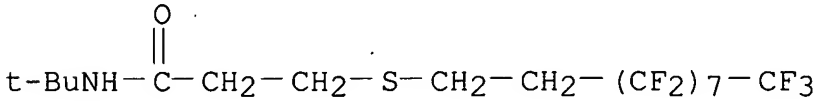
L63 ANSWER 6 OF 7 HCA COPYRIGHT 2005 ACS on STN
117:97325 Amphiphilic fluorine derivatives with telomeric structures for biomedical applications. Pavia, Andre A.; Pucci, Bernard; Riess, Jean G.; Zarif, Leila (Applications et Transferts de Technologies Avancees, Fr.). PCT Int. Appl. WO 9202560 A1 19920220, 56 pp. DESIGNATED STATES: W: AU, CA, JP; RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE. (English). CODEN: PIXXD2. APPLICATION: WO 1991-EP1521 19910808. PRIORITY: FR 1990-10206 19900809.
AB The title compds., RXS(CH2CR1CONHR2)n(CH2CR1COR3)mH (R = C2-18 fluorinated radical; X = substituted (fluoro)alkylene group; R1 = H, Me; R2 = OH-contg. radical; R3 = amino acid radical, peptide radical; n = 1-50; m = 0-200) are useful as prodrugs or in formulating pharmaceutical, cosmetic, and veterinary prepns. The compds. are esp. useful as carriers for gases (e.g. O), contrast agents, and markers. Several telomers were prepd. and their activities were tested, for example, hemolytic activity, in vivo toxicity, and emulsification property of trihydroxymethylacrylamidomethand-perfluoro-1H,1H,2H,2H-decanethiol telomer were evaluated.
IT **142873-12-9P**
(prepn. of, as carrier for biol. active substances)

RN 142873-12-9 HCA
CN Propanamide, N-[2-hydroxy-1,1-bis(hydroxymethyl)ethyl]-3-[(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)thio]- (9CI) (CA INDEX NAME)



IT **142873-12-9P**
(prepn. of, as carrier for biol. active substances)

L63 ANSWER 7 OF 7 HCA COPYRIGHT 2005 ACS on STN
92:116204 Concentrating, collecting, and controlling oil spilled on water. Falk, Robert Allan (Ciba-Geigy A.-G., Switz.). Ger. Offen. DE 2856616 19790705, 32 pp. (German). CODEN: GWXXBX. APPLICATION: DE 1978-2856616 19781229.
AB Oil spill control compns. contain 0.1-95.0% of a fluoro compd. with a soly. of <0.01% in water and 5-99.9% of a diluent with a soly. of >0.01% in water and form a lasting, quickly spreading, water insol. surface film. The fluoro compd. is a perfluoroalkyl group-contg. compd. and the diluent is an ether or ester of an alkylenglycol.
IT **72016-30-9**
(oil-spill control compn. contg., for use on water surfaces)
RN 72016-30-9 HCA
CN Propanamide, N-(1,1-dimethylethyl)-3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)thio]- (9CI) (CA INDEX NAME)



IT **72016-30-9**
(oil-spill control compn. contg., for use on water surfaces)